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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23552

7590

12/16/2009

MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903 EXAMINER

LAUCHMAN, LAYLA G

ART UNIT PAPER NUMBER

2877

DATE MAILED: 12/16/2009

ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/586,842	04/24/2007	Stuart Lucas	03164.0203USWO	2948

TITLE OF INVENTION: METHOD AND APPARATUS FOR TESTING FIBRES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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maintenance fee notifica	ed below or directed oth tions. ENCE ADDRESS (Note: Use Blo		Not	te: A certificate of n	nailing ca	in only be used for	correspondence address as ate "FEE ADDRESS" for domestic mailings of the
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MERCHANT of P.O. BOX 2903 MINNEAPOLIS	7590 12/16. & GOULD PC 5, MN 55402-0903	/2009	I he Stal add trar	Certice Postal Service with the Postal Service with the Mail asmitted to the USPT	ificate of S s Fee(s) T ith sufficient Stop 1SS O (571) 2	Mailing or Transn Transmittal is being ent postage for first UE FEE address a 173-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
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							(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	R		EY DOCKET NO.	CONFIRMATION NO.
10/586,842 PITI E OF INVENTION	04/24/2007 • METHOD AND APPA	RATUS FOR TESTING	Stuart Lucas		03164	.0203USWO	2948
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/16/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
LAUCHMAN	N, LAYLA G	2877	356-367000	-			
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent attolisted, no name will be	o 3 registered patent vely, le firm (having as a agent) and the name orneys or agents. If n	attorneys member a	2	
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Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Cor	poration of	or other private grou	p entity Government
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a. Applicant claim	<b>tus</b> (from status indicated as SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no lon	-			
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n application. Confiden ubmitting the completed his form and/or suggesti	tiality is governed by 35 d application form to the jons for reducing this but	U.S.C. 122 and 37 CFR USPTO. Time will vary den. should be sent to the	1.14. This collection is es depending upon the indi- e Chief Information Offic	timated to take 12 m vidual case. Any cor er. U.S. Patent and T	ninutes to nments or Frademark	complete, including n the amount of time c Office, U.S. Depar	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/586,842 04/24/2007		Stuart Lucas	03164.0203USWO 2948		
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MERCHANT &	GOULD PC	LAUCHMAN, LAYLA G			
P.O. BOX 2903			ART UNIT	PAPER NUMBER	
MINNEAPOLIS, MN 55402-0903			2877		
			DATE MAILED: 12/16/200	9	

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 398 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 398 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/586,842	LUCAS ET AL.
Notice of Allowability	Examiner	Art Unit
	L. G. Lauchman	2877
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate commits (IGHTS). This application is	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to 10/27/09.		
2. ☑ The allowed claim(s) is/are <u>1-16, 24, 25</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	e been received. e been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>		
<ul> <li>5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the de</li></ul>	son's Patent Drawing Revie s Amendment / Comment o .84(c)) should be written on t he header according to 37 Cl sit of BIOLOGICAL MAT	r in the Office action of  the drawings in the front (not the back) of  R 1.121(d).  ERIAL must be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/28/09</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. ☐ Interview S Paper No. 7. ☐ Examiner's	formal Patent Application ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance 

## Allowable Subject Matter

Claims 1-16, 24, 25 are allowed.

The following is an examiner's statement of reasons for allowance:

As to Claim 1, the prior art of record taken alone or in combination, fails to disclose or render obvious conducting computer analysis on the image(s) captured in step b) to determine the maturity of the cellulosic fiber by comparing the image(s) interference data to maturity reference data, and wherein an average value of fiber maturity and a fiber maturity distribution is determined for the sample of fiber, in combination with the rest of the limitations of the claim.

As to Claim 24, the prior art of record taken alone or in combination, fails to disclose or render obvious conducting computer analysis on the image(s) captured in step b) to determine the maturity of the cellulosic fiber by comparing the image(s) interference data to maturity reference data, wherein the analysis includes determining the interference data of the images as a percentage of an area of any one or a combination of yellow, red, green, and blue interference colors in the images to a total area of fiber in the images, and comparing the percentage area to the maturity reference data to determine at least one of an average value of the fiber maturity for the fiber in the images(s) and a fiber maturity distribution for the fiber in the images, in combination with the rest of the limitations of the claim.

As to Claim 25, the prior art of record taken alone or in combination, fails to disclose or render obvious conducting computer analysis on the images captured in step b) to determine the maturity of the cellulosic fiber by comparing interference data of the images to maturity

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reference data, wherein the analysis includes determining the total area of the fiber captured in the images as a percentage of an area of any one or a combination of yellow, red, green, and blue interference colors in the images to the total area of fiber in the images by pixel analysis, and comparing the interference data to the maturity reference data to determine at least one of an average value of the fiber maturity for the fiber in the images and a fiber maturity distribution for the fiber in the images, in combination with the rest of the limitations of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to L. G. Lauchman whose telephone number is (571) 272-2418. The examiner's normal work schedule is 8:00am to 4:30pm (EST), Monday through Friday. If attempts to reach examiner by the telephone are unsuccessful, the examiner's supervisor Gregory J. Toatley, Jr. can be reached on (571) 272-2059, ext. 77.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2877

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be directed to the TC receptionist whose telephone number is (571) 272-1562.

/L. G. Lauchman/ Primary Examiner, Art Unit 2877

12/16/2009